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1 Routine/Function Prologues

1.0.1 *clm2_almaout.F90* (Source File: *clm2_almaout.F90*)

CLM output writer.

REVISION HISTORY:

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29 Oct. 1999: Jon Radakovich; Initial code
27 Sep. 2000: Brian Cosgrove; Major revisions to enable CLM to
               output ALMA/LDAS variables
27 Sep. 2000: Added arbitrary root zone cutoff value of .05 so
               that root zone is considered only those levels
               with a rooting value >= .05
19 Mar 2000: Cosgrove; Changed code to allow LDAS GRIB output. Removed
               calls to LATS4D that had been used for grib output and
               added a call to griboutclm which outputs GRIB CLM data.
05 Apr 2002: Jon Gottschalck; Modified code to work with CLM2
14 Jun 2003; Sujay Kumar; ALMA version of the output routine

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INTERFACE:

```
subroutine clm2_almaout (ld, tile)
```

USES:

```

use lis_module
use tile_module
use clm_varctl, only : clmdrv

```

CONTENTS:

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!-----
! Test to see if output writing interval has been reached
!-----
if(mod(ld%gmt,clmdrv%writeintc2).eq.0)then
!-----
! Generate directory structure and file names for CLM Output
!-----
      write(unit=temp,fmt='(i4,i2,i2)')ld%t%yr,ld%t%mo,ld%t%da
      read(unit=temp,fmt='(8a1)')ftime
      do i=1,8
         if(ftime(i).eq.(' '))ftime(i)='0'
      enddo

      write(unit=temp,fmt='(i4)')ld%t%yr
      read(unit=temp,fmt='(8a1)')ftimec
      do i=1,4
         if(ftimec(i).eq.(' '))ftimec(i)='0'
      enddo

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write(unit=temp,fmt='(a6,i3,a1)')' /LIS.E',ld%o%expcode,'.
read(unit=temp,fmt='(80a1)') (fname(i),i=1,11)
do i=1,11
    if(fname(i).eq.(' '))fname(i)='0'
enddo

write(unit=temp,fmt='(a40)') ld%o%odir
read(unit=temp,fmt='(40a1)') (fbase(i),i=1,40)
c=0
do i=1,40
    if(fbase(i).eq.(' ').and.c.eq.0)c=i-1
enddo

write(unit=temp,fmt='(a4,i3,a6,i4,a1,i4,i2,i2)')'/EXP', &
    ld%o%expcode,'/CLM2/ ', &
    ld%t%yr,'/',ld%t%yr,ld%t%mo,ld%t%da
read(unit=temp,fmt='(80a1)') (fyrmodir(i),i=1,26)
do i=1,26
    if(fyrmodir(i).eq.(' '))fyrmodir(i)='0'
enddo

write(unit=temp,fmt='(a9)')'mkdir -p '
read(unit=temp,fmt='(80a1)')(fmkdir(i),i=1,9)

write(unit=temp,fmt='(80a1)')(fmkdir(i),i=1,9),(fbase(i),i=1,c), &
    (fyrmodir(i),i=1,26)
read(unit=temp,fmt='(a80)')mkfyrmo

!-----
! Make the directories for the CLM2 output files
!-----
call system(mkfyrmo)
!-----
! Generate file name for binary output
!-----
if(ld%o%wout.eq.1)then
    write(unit=temp,fmt='(I4,I2,I2,I2)')ld%t%yr, &
        ld%t%mo,ld%t%da,ld%t%hr
    read(unit=temp,fmt='(10A1)')ftimeb
    do i=1,10
        if(ftimeb(i).eq.(' '))ftimeb(i)='0'
    enddo

    write(unit=temp,fmt='(A9)')'.CLM2gbin'
    read(unit=temp,fmt='(80A1)') (fsubgb(i),i=1,9)

    write(unit=temp,fmt='(80A1)')(fbase(i),i=1,c), &

```

```

(FYRMODIR(I),I=1,26), &
(fname(i),i=1,11), &
(ftimeb(i),i=1,10),(fsubgb(i),i=1,9 )
read(unit=temp,fmt='(A80)')filengb
endif
if(ld%o%wout.eq.1)then
  open(57,file=filengb,form='unformatted')

  clmdrv%numoutc2=clmdrv%numoutc2+1      !Counts number of output times
!-----
! Write statistical output
!-----
if(clmdrv%clm2open.eq.0)then
  file='CLMstats.dat'
  call openfile(name,ld%o%odir,ld%o%expcode,file)
  if(ld%o%startcode.eq.1)then
    open(60,file=name,form='formatted',status='unknown', &
         position='append')
  else
    open(60,file=name,form='formatted',status='replace')
  endif
  clmdrv%clm2open=1
endif

write(60,996)' Statistical Summary of CLM Output for: ', &
  ld%t%mo,'/',ld%t%da,'/',ld%t%yr,ld%t%hr,:', &
  ld%t%mn,:',ld%t%ss
996 format(a47,i2,a1,i2,a1,i4,1x,i2,a1,i2,a1,i2)
write(60,*)
write(60,997)
997 format(t26,'Mean',t40,'StDev',t54,'Min',t68,'Max')

if(ld%o%wtile.eq.1) then
  call clm2_tileout(ld,tile,57,60)
else
  call clm2_gridout(ld,tile,57,60)
endif
endif
endif

```